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PATENT  
TH1985

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/841,284

Filing Date: April 24, 2001

Confirmation No.: 4716

Inventors: Vinegar et al.

Title: IN SITU THERMAL PROCESSING  
OF A COAL FORMATION TO  
INCREASE  
PERMEABILITY/POROSITY OF  
THE FORMATION

§ Examiner: G. A. Suchfield  
§ Art Unit: 3672  
§ Atty. Dkt. No.: 5659-06000  
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| <p>CERTIFICATE OF MAILING<br/>UNDER 37 C.F.R. §1.8</p> <p>DATE OF DEPOSIT: <u>3/18/04</u></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated above and is addressed to:</p> <p>Commissioner for Patents<br/>P.O. Box 1450<br/>Alexandria, VA 22313-1450</p> <p><u>Jackie L. Pifer</u><br/>Jackie L. Pifer</p> |
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the document listed on attached Form PTO-1449 (AA11 and U11) be considered by the Examiner and made of record. A copy of the listed document is enclosed for the convenience of the Examiner.

A Fee Authorization for the Information Disclosure Fee is enclosed. Should any additional fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5659-06000 /EBM.

Respectfully submitted,

David W. Quimby  
David W. Quimby

Reg. No. 39,338  
Attorney for Applicant

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Date: February 19, 2004

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Jackie L. Pitre

FEE AUTHORIZATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Sir:

The Commissioner is hereby authorized to charge the following fees to Shell Oil Co.  
Deposit Account Number 19-1800/TH1985:

|   |                        |
|---|------------------------|
| 1. Information Disclosure Statement Fee | \$180.00               |
| <b><u>TOTAL AMOUNT:</u></b>             | <b><u>\$180.00</u></b> |

The Commissioner is also authorized to charge any extension fee or other fees that may  
be necessary to the same account number. If the above-mentioned account is found to have  
insufficient funds, the Commissioner is authorized to charge Meyertons, Hood, Kivlin, Kowert &  
Goetzel, P.C. Deposit Account Number 50-1505/5659-06000/EBM.

Respectfully submitted,

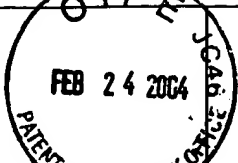


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Date: February 19, 2004

| <b>Form PTO-1449</b> (modified)<br>List of Patents and Publications<br>For Applicant's Information<br>Disclosure Statement<br>(Use several sheets if necessary) |   | ATTY. DKT. NO. 5659-06000<br><br>APPLICANT: Vinegar et al.<br><br>FILING DATE: April 24, 2001 | SERIAL NO. 09/841,284<br><br>GROUP: 3672 |                   |              |                 |                                  |      |       |           |                                  |  |     |         |          |                |  |  |
|---|---|---|--|-------------------|--------------|-----------------|----------------------------------|------|-------|-----------|----------------------------------|--|-----|---------|----------|----------------|--|--|
|   | <b>U.S. PATENT DOCUMENTS</b>  |   |  |                   |              |                 |                                  |      |       |           |                                  |  |     |         |          |                |  |  |
|   | <table border="1"> <tr> <th>EXAM.<br/>INITIALS</th> <th>REF.<br/>DES.</th> <th>DOCUMENT NUMBER</th> <th>DATE</th> <th>NAME</th> <th>CLASS</th> <th>SUB CLASS</th> <th>FILING DATE<br/>IF<br/>APPROPRIATE</th> </tr> <tr> <td></td> <td>U11</td> <td>4006778</td> <td>2/8/1977</td> <td>Redford et al.</td> <td></td> <td></td> <td></td> </tr> </table> |   |  | EXAM.<br>INITIALS | REF.<br>DES. | DOCUMENT NUMBER | DATE                             | NAME | CLASS | SUB CLASS | FILING DATE<br>IF<br>APPROPRIATE |  | U11 | 4006778 | 2/8/1977 | Redford et al. |  |  |
| EXAM.<br>INITIALS   | REF.<br>DES.  | DOCUMENT NUMBER   | DATE                                     | NAME              | CLASS        | SUB CLASS       | FILING DATE<br>IF<br>APPROPRIATE |      |       |           |                                  |  |     |         |          |                |  |  |
|   | U11   | 4006778   | 2/8/1977                                 | Redford et al.    |              |                 |                                  |      |       |           |                                  |  |     |         |          |                |  |  |

**U.S. PATENT DOCUMENTS**

| EXAM.<br>INITIALS | REF.<br>DES. | DOCUMENT NUMBER | DATE     | NAME           | CLASS | SUB CLASS | FILING DATE<br>IF<br>APPROPRIATE |
|-------------------|--------------|-----------------|----------|----------------|-------|-----------|----------------------------------|
|                   | U11          | 4006778         | 2/8/1977 | Redford et al. |       |           |                                  |

**OTHER ART**

| EXAM.<br>INITIALS | REF.<br>DES. | OTHER ART (including Author, Title, Date, Pertinent Pages, etc.)                  |
|-------------------|--------------|---|
|                   | AA11         | Van Krevelen, D. W.; COAL: Typology-Physics-Chemistry-Constitution, 1993, p. 371. |

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EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.